

County of San Diego
Retitled: August 8, 2002
Reviewed: Spring 2003

ROAD STRUCTURES WORKER I
ROAD STRUCTURES WORKER II
ROAD STRUCTURES WORKER III

Class No. 006025
Class No. 006026
Class No. 006027

DEFINITION:

To perform work in the construction, repair, and preventative maintenance of County-maintained road and bridge structures, culverts, and related structures; to perform a wide variety of skilled carpentry work involving construction, installation and repair of wooden structures; and to perform related work.

DISTINGUISHING CHARACTERISTICS:

Positions in this class series are allocated only to the Department of Public Works, Public Services Division. This class is distinguished from the Construction and Services Worker series by the broader knowledge and skills required in several craft areas including, but not limited to: masonry, carpentry, building construction, electrical, welding, road and sewer line maintenance and repair.

Road Structures Worker I: This is the first working-level class in the Road Structures Worker series. Under immediate supervision, incumbents perform unskilled to semi-skilled road structure construction/repair duties.

Road Structures Worker II: This is the journey level class in the Road Structures Worker series. Under general supervision, incumbents perform fully skilled road structure construction/repair duties.

Road Structures Worker III: This is the lead level class of the Road Structures Worker series. Under direction, the incumbent serves as a lead worker providing technical guidance and training to an assigned crew of Road Structures Workers.

EXAMPLES OF DUTIES:

Repairs, constructs, and installs a variety of concrete and metal structures used for roads including guardrails, sidewalks, curbs, and gutters; performs roadside repair work on bridges within the County road system, including repairing and installing wood planking and guardrails; performs special projects such as repairing County building facilities, constructing mini-offices, and constructing and repairing roofs, paint walls, construct slabs and foundations; repairs and installs breakaway systems and shock absorber systems; repairs and installs chain link, barb-wire, and wooden fences; ensures that all construction/repair projects conform with the regional standard drawings; utilizes power tools such as saw drills, rotor hammer grinder, concrete and asphalt cutting saws, concrete mixers, jackhammer, cutting torch, and chainsaws; drives and operates utility trucks, forklifts, dump trucks, and loaders; interacts with Road Crew Supervisors to coordinate projects and arrange for assistance from Road Division staff; and maintains logs on assigned vehicle maintenance and vehicle condition reports.

Road Structures Worker III:

In addition to the duties listed above: Leads the work of subordinate Roads Construction Workers and directs the construction, repair, maintenance or improvement tasks; and coordinates the work of related crafts/support personnel.

MINIMUM QUALIFICATIONS:

Knowledge Level: T = Thorough; G = General; -- = Not Applicable

Classification Level: I = Road Structures Worker I
II = Road Structures Worker II
III = Road Structures Worker III

Knowledge of:

<u>I</u>	<u>II</u>	<u>III</u>	
G	T	T	Bridge and barricade construction principles and fundamentals.
G	T	T	Caltrans standard plans and Regional standard drawings.
G	T	T	General carpentry technology.
G	T	T	Masonry technology.
T	T	T	Safe work practices.
G	T	T	The operation of light and heavy construction equipment used in bridge construction.
G	T	T	Math used in carpentry and masonry work.
--	--	G	Basic principles of training and supervision.
--	--	G	Record-keeping (e.g., work orders, expenditures, completion reports, etc.).

Skills and Abilities to:

The following apply to the Road Structures Worker I and II:

- Construct bridges and other related structures.
- Lay block.
- Pour and finish cement.
- Construct, repair and maintain wooden structures and related fixtures.
- Construct forms and other reinforcements used in the construction of bridges and related structures.
- Operate tools and equipment used in carpentry and masonry work.
- Operate and maintain light and heavy equipment used in bridge construction.
- Perform minor electrical and plumbing work.
- Read and interpret work drawings, plans and blueprints.
- Assemble and replace guardrails.

Road Structures Worker III (in addition to the skills listed above):

- Lead the work of subordinate Roads Construction Workers and direct the construction, repair, maintenance or improvement tasks.
- Coordinate the work of related crafts/support personnel.

EDUCATION/EXPERIENCE:

Training and/or experience which clearly demonstrate possession of the knowledge, skills and abilities stated above. Examples of qualifying training /experience are:

Road Structures Worker I:

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006026 – ROAD STRUCTURES WORKER II

006027 – ROAD STRUCTURES WORKER III

One (1) year of experience constructing, maintaining, and repairing a wide variety of road and bridge structures, culverts, and related structures; OR, one (1) year of construction experience which has included general carpentry work.

Road Structures Worker II:

1. Two (2) years of experience constructing, maintaining, and repairing a wide variety of road and bridge structures, culverts, and related structures; OR, two (2) years of construction experience which has included general carpentry work; OR,
2. One (1) year of experience as a Road Structures Worker I for the County of San Diego.

Road Structures Worker III:

1. Three (3) years of experience constructing, maintaining, and repairing a wide variety of road and bridge structures, culverts, and related structures; OR, three (3) years of construction experience which has included general carpentry work; OR,
2. One (1) year of experience as a Road Structures Worker II for the County of San Diego.

SPECIAL NOTES, LICENSES, OR REQUIREMENTS:

License:

A valid Class B California Driver License with tank and air brake endorsements is required at time of appointment and must be maintained throughout employment in this class. Some positions require a Class A California Driver License.

Working Conditions:

Works outdoors in all weather conditions. Exposure to noise, dust and harmful substances. Frequent work on ladders, scaffolding, roofs and roadways. Subject to emergency callback and irregular work hours.

Physical Requirements:

Strenuous physical labor on a continuous basis, including lifting up to 50 pounds and occasionally 70 pounds.